

IN THE CLAIMSRECEIVED  
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1. (Currently Amended) A method comprising:

receiving a data access query that combines a structured query language (SQL) clause with non-SQL data including output related characteristics of an output data chart, the data access query being noncompliant with an SQL standard and being provided by a first user, the output related characteristics including a definition of the output data chart to be built;

extracting an SQL query compliant with the SQL standard from the data access query using the SQL clause;

creating a layout of the output data chart using the output related characteristics included in the data access query; and

upon receiving a request of a second user to view the output data chart, executing the SQL query to retrieve content from a database[[]], and building the output data chart with the retrieved content for [[a]] the second user using the created layout ~~output related characteristics from the data access query.~~

2. (Original) The method of claim 1 wherein the first user is familiar with a data model of a database being queried and the second user is not familiar with the data model of the database being queried.

3. (Original) The method of claim 1 wherein the output data chart is one selected from the group consisting of a graph and a grid.

4. (Previously Presented) The method of claim 1 wherein the definition of the output data chart includes characteristics selected from the group consisting of one or more dimension elements of the output data chart, one or more properties of each dimension element, and one or more metrics to be included in the output data chart.

5. (Previously Presented) The method of claim 1 wherein the data access query provides associations between database elements contained in the SQL clause with corresponding output related characteristics.

6. (Original) The method of claim 1 further comprising providing an access query user interface to assist the first user.

7. Canceled.

8. (Previously Presented) The method of claim 1 wherein building an output data chart further comprises:

- determining, based on user input, that the output data chart is a grid;
- determining whether the grid is one-dimensional or multi-dimensional based on the data access query; and
- if the grid is one-dimensional, identifying a structure of the grid based on the output related characteristics from the data access query.

9. (Previously Presented) The method of claim 8 further comprising:

- determining that the grid is multi-dimensional;

creating a list of dimension elements of the grid using the output related characteristics from the data access query; and

designating one dimension element from the list for a Y-axis of the grid based on user selection from the list of dimension elements.

10. (Previously Presented) The method of claim 1 wherein building an output data chart further comprises:

determining, based on user input, that the output data chart is a graph;

determining a number of dimensions and a number of metrics within the graph based on the output related characteristics from the data access query;

identifying a list of available graph types based on the number of dimensions and the number of metrics; and

determining a graph type to be used based on user selection from the list of available graph types.

11. (Previously Presented) The method of claim 10 further comprising:

determining that the number of metrics exceeds an allowable number of metrics for the selected graph type;

creating a list of metrics using the output related characteristics from the data access query; and

identifying metrics to be used for the graph based on user selection from the list of metrics.

12. (Original) The method of claim 10 further comprising:

if the graph has more than one dimension, creating a list of dimension elements for the graph using the data access query; and

identifying a primary dimension for the graph based on user selection from the list of dimension elements.

13. (Original) The method of claim 1 further comprising making the output data chart available for integration into a personalized web page of the second user.

14. (Original) The method of claim 1 further comprising restricting access to the output data chart to employees of a certain business division.

15. (Original) The method of claim 1 further comprising:  
upon receiving the data access query, identifying a plurality of data elements in one or more database tables that are to be accessed according to the data access query;  
and  
creating a set of preliminary filters for the output data chart using the plurality of data elements in the one or more database tables.

16. (Previously Presented) The method of claim 15 further comprising:  
requesting the second user to specify parameters for one or more preliminary filters within the set of preliminary filters to define how content of the output data chart is to be restricted;  
creating final filters using the set of preliminary filters and specified parameters;  
and

adding the final filters to a WHERE clause of an SQL statement extracted from the data access query.

17. (Currently Amended) A system comprising:

a query engine to receive a data access query that combines a structured query language (SQL) clause with non-SQL data including output related characteristics of an output data chart, the data access query being noncompliant with an SQL standard and being provided by a first user, the output related characteristics including a definition of the output data chart to be built, and to extract an SQL query compliant with the SQL standard from the data access query using the SQL clause, ~~and to execute the SQL query to retrieve content from a database;~~ and

a data chart engine to create a layout of the output data chart using the output related characteristics included in the data access query, and upon receiving a request of a second user to view the output data chart, to cause content to be retrieved from a database through an execution of the SQL query, and to build the output data chart with the retrieved content for ~~[[a]]~~ the second user using the created layout ~~output related characteristics from the data access query.~~

18. (Previously Presented) The system of claim 17 wherein:

the first user is familiar with a data model of a database being queried and the second user is not familiar with the data model of the database being queried;

the output data chart is a graph or a grid; and

the data access query provides associations between database elements contained in the SQL clause with corresponding output related characteristics.

19. Canceled.

20. (Previously Presented) The system of claim 17 wherein the definition of the output data chart includes characteristics selected from the group consisting of one or more dimension elements of the output data chart, one or more properties of each dimension element, and one or more metrics to be included in the output data chart.

21. Canceled.

22. Canceled.

23. (Original) The system of claim 17 wherein the data chart engine is to build an output data chart by determining, based on user input, that the output data chart is a grid, determining whether the grid is one-dimensional or multi-dimensional based on the data access query, and identifying a structure of the grid based on the data access query if the grid is one-dimensional.

24. (Original) The system of claim 17 wherein the data chart engine is to build an output data chart by determining, based on user input, that the output data chart is a graph, determining a number of dimensions and a number of metrics within the graph based on the data access query, identifying a list of available graph types based on the number of dimensions and the number of metrics, and determining a graph type to be used based on user selection from the list of available graph types.

25. (Currently Amended) An apparatus comprising:

means for receiving a data access query that combines a structured query language (SQL) clause with non-SQL data including output related characteristics of an output data chart, the data access query being noncompliant with an SQL standard and being provided by a first user, the output related characteristics including a definition of the output data chart to be built;

means for extracting an SQL query compliant with the SQL standard from the data access query using the SQL clause;

means for executing the SQL query to retrieve content from a database;

means for creating a layout of the output data chart using the output related characteristics included in the data access query; and

upon receiving a request of a second user to view the output data chart, means for executing the SQL query to retrieve content from a database[[:]], and means for building the output data chart with the retrieved content for [[a]] the second user using the created layout ~~output related characteristics from the data access query.~~

26. (Previously Presented) The apparatus of claim 25 wherein:

the first user is familiar with a data model of a database being queried and the second user is not familiar with the data model of the database being queried;

the output data chart is a graph or a grid; and

the data access query provides associations between database elements contained in the SQL query with corresponding output related characteristics.

27. Canceled.

28. (Previously Presented) The apparatus of claim 25 wherein the definition of the output data chart includes characteristics selected from the group consisting of one or more dimension elements of the output data chart, one or more properties of each dimension element, and one or more metrics to be included in the output data chart.

29. Canceled.

30. (Currently Amended) A computer readable medium comprising executable instructions which when executed on a processing system cause said processing system to perform a method comprising:

receiving a data access query that combines a structured query language (SQL) clause with non-SQL data including output related characteristics of an output data chart, the data access query being noncompliant with an SQL standard and being provided by a first user, the output related characteristics including a definition of the output data chart to be built;

extracting an SQL query compliant with the SQL standard from the data access query using the SQL clause;

creating a layout of the output data chart using the output related characteristics included in the data access query; and

upon receiving a request of a second user to view the output data chart,  
executing the SQL query to retrieve content from a database[[]], and building the



output data chart with the retrieved content for [[a]] the second user using the created layout ~~output related characteristics from the data access query.~~

31. (Original) The computer readable medium of claim 30 wherein:  
the first user is familiar with a data model of a database being queried and the  
second user is not familiar with the data model of the database being queried; and  
the output data chart is a graph or a grid.

32. Canceled.